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PTO/SB/01 (12-97)

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Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)	Attorney Docket Number	1426
	First Named Inventor	Robert A. Selzer
	COMPLETE IF KNOWN	
	Application Number	/
	Filing Date	
	Group Art Unit	
<input checked="" type="checkbox"/> Declaration Submitted with Initial Filing	OR	<input type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)
Examiner Name		

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Method Of Improving X-Ray Lithography In The Sub 100nm Range To Create High Quality Semiconductor Devices
(Title of the Invention)

the specification of which

☒ is attached hereto
OR

☐ was filed on (MM/DD/YYYY) [] as United States Application Number or PCT International

Application Number [] and was amended on (MM/DD/YYYY) [] (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
N/A			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.
N/A		

[Page 1 of 2]

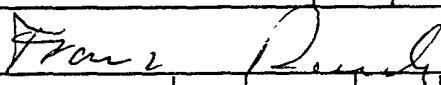
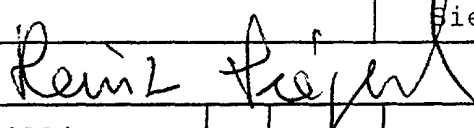
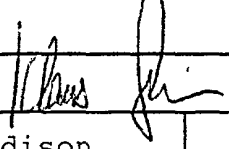
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DECLARATION	ADDITIONAL INVENTOR(S) Supplemental Sheet Page <u>4</u> of <u>4</u>
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Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle [if any])				Family Name or Surname			
Franz Ludwig				Rauch			
Inventor's Signature				Date	6/10/99		
Residence: City	Waterbury	State	VT	Country	USA	Citizenship	German
Post Office Address	21 Gregory Drive						
Post Office Address							
City	S. Burlington	State	VT	ZIP	05403	Country	USA
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle [if any])				Family Name or Surname			
Heinz				Siegert			
Inventor's Signature				Date	6/10/99		
Residence: City	Williston	State	VT	Country	USA	Citizenship	German
Post Office Address	21 Gregory Drive						
Post Office Address							
City	S. Burlington	State	VT	ZIP	05403	Country	USA
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle [if any])				Family Name or Surname			
Klaus				Simon			
Inventor's Signature				Date	6/10/99		
Residence: City	Madison	State	WI	Country	USA	Citizenship	German
Post Office Address	21 Gregory Drive						
Post Office Address							
City	S. Burlington	State	VT	ZIP	05403	Country	USA

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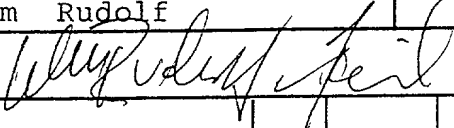
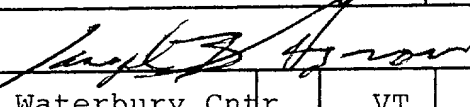
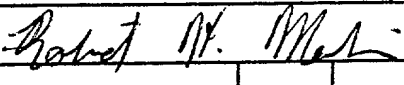
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DECLARATION

ADDITIONAL INVENTOR(S)
Supplemental Sheet
Page 3 of 4

Name of Additional Joint Inventor, if any:				<input type="checkbox"/> A petition has been filed for this unsigned inventor			
Given Name (first and middle [if any])				Family Name or Surname			
William Rudolf				Friml			
Inventor's Signature						Date	6/10/99
Residence: City	New Haven	State	VT	Country	USA	Citizenship	USA
Post Office Address	21 Gregory Drive						
Post Office Address							
City	S. Burlington	State	VT	ZIP	05403	Country	USA
Name of Additional Joint Inventor, if any:				<input type="checkbox"/> A petition has been filed for this unsigned inventor			
Given Name (first and middle [if any])				Family Name or Surname			
Joe Baker				Gagnon			
Inventor's Signature						Date	6/10/99
Residence: City	Waterbury Cntr	State	VT	Country	USA	Citizenship	USA
Post Office Address	21 Gregory Drive						
Post Office Address							
City	S. Burlington	State	VT	ZIP	05403	Country	USA
Name of Additional Joint Inventor, if any:				<input type="checkbox"/> A petition has been filed for this unsigned inventor			
Given Name (first and middle [if any])				Family Name or Surname			
Robert Harrison				Macklin			
Inventor's Signature						Date	6/10/99
Residence: City	Richmond	State	VT	Country	USA	Citizenship	Usa
Post Office Address	21 Gregory Drive						
Post Office Address							
City	S. Burlington	State	VT	ZIP	05403	Country	USA

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PTO/SB/81 (11-96)
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**POWER OF ATTORNEY OR
AUTHORIZATION OF AGENT,
NOT ACCOMPANYING
APPLICATION**

Application Number	
Filing Date	6/12/99
First Named Inventor	SELZER
Group Art Unit	2876
Examiner Name	IKKADZE
Attorney Docket Number	1426

I hereby appoint:

☒ Practitioners at Customer Number

26542

Place Customer
Number Bar Code
Label here

☐ Practitioner(s) named below:

Name	Registration Number
James M. Leas	34372

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

☒ The above-mentioned Customer Number.

OR

<input type="checkbox"/> Firm or Individual Name	James Marc Leas				
Address	37 Butler Drive				
Address					
City	S. Burlington	State	VT	ZIP	05403
Country	USA				
Telephone	802 864-1575	Fax	802 864-9319		

I am the:

☐ Applicant.

☒ Assignee of record of the entire interest
Certificate under 37 CFR 3.73(b) is enclosed

SIGNATURE of Applicant or Assignee of Record

Name	ROBERT A. SELZER
Signature	Robert A. Selzer
Date	11 Jan 2001

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: ROBERT A. SELZER et al. / SAL INC.
 Application No./Patent No.: 1426 Filed/Issue Date: 06/12/1999
 Entitled: Method of Improving X-Ray Lithography...
SAL, INC., a CORPORATION
 (Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
 2. ☐ an assignee of less than the entire right, title and interest.
 The extent (by, percentage) of its ownership interest is _____ %

in the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: _____ To: _____
 The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
 2. From: _____ To: _____
 The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
 3. From: _____ To: _____
 The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

[] Additional documents in the chain of title are listed on a supplemental sheet.

- [] Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

11 JAN 2001

Date

ROBERT A. SELZER.

Typed or printed name

Robert A. Selzer.

Signature

SR. VP TECHNOLOGY

Title

T04090" CH92860

A S S I G N M E N T

In consideration of One Dollar and other good and valuable consideration, receipt of which is hereby acknowledged, we, Robert A. Selzer of Waterbury, Franz L. Rauch of Waterbury, William R. Friml of New Haven, Joseph B. Gagnon of Waterbury Center, Robert H. Macklin of Richmond and Heinz Siegert of Williston, all of Vermont hereby sell and assign to SAL, Inc. (hereinafter called the ASSIGNEE), a Corporation organized and existing under the laws of Vermont having its principal place of business at 21 Gregory Drive, South Burlington, Vermont 05403 its successors, assigns, nominees, or other legal representatives, the entire right, title and interest in and to the IMPROVEMENTS IN A METHOD OF IMPROVING X-RAY LITHOGRAPHY IN THE SUB 100nm RANGE TO CREATE HIGH QUALITY SEMICONDUCTOR DEVICES invented by us and the application for United States patent therefor, executed on 10 June 1999, filed on 12 June 1999, Serial Number 09/332,206 and all original and reissued patents granted therefor, and all divisions and continuations thereof, including the subjects-matter of any and all claims which may be obtained in every such patent, and the right to apply for and obtain patents and Utility Model Registrations in countries foreign to the United States, and in and to any Letters Patent or Utility Model Registration which may be granted thereon in such foreign countries, and authorize and request the Commissioner of Patents of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue patents on application as aforesaid, to issue the said Letters Patent or Utility Model Registration to the said ASSIGNEE, its successors, assigns, nominees or other legal representatives, as assignee of the entire interest, and covenant that we have full right to convey the entire interest herein assigned and that we have not executed and will not execute any agreement in conflict herewith, and agree that we will communicate to said Corporation, its successors, assigns, nominees or other legal representatives, all facts known to us respecting said invention, whenever requested, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and do all lawful acts requisite for the application for such divisional, continuing or reissue applications, or the procuring thereof, and that if and when said ASSIGNEE, its successors, assigns, nominees or other legal representatives desire to file a disclaimer relating thereto, we will, upon request, sign all lawful papers requisite

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for the filing of such disclaimer, and we further covenant and agree that we will, at any time upon request, do everything legally possible to aid said Corporation, its successors, assigns, nominees or other legal representatives, either in its or their own name, to apply for, obtain and enforce proper patent and/or Utility Model protection for said improvements in all countries, all without further consideration but at the expense of said ASSIGNEE, its successors, assigns, nominees or other legal representatives.

Robert A. Selzer
.....
Robert A. Selzer

Franz Rauch
.....
Franz L. Rauch

William R. Friml
.....
William R. Friml

Joseph B. Gagnon
.....
Joseph B. Gagnon

Robert H. Macklin
.....
Robert H. Macklin

Heinz Siegert
.....
Heinz Siegert

State of Vermont

County of Chittenden

This 11th day of ~~September~~ ^{October} 1999, before me personally came the above-named Robert A. Selzer, Franz Rauch, William R. Friml, Joseph B. Gagnon, Robert H. Macklin and Heinz Siegert to me personally known as the individuals who executed the foregoing assignment, who acknowledged to me that they executed the same of their own free will for the purposes therein set forth.

Emilie R. [illegible]
.....
Notary Public

